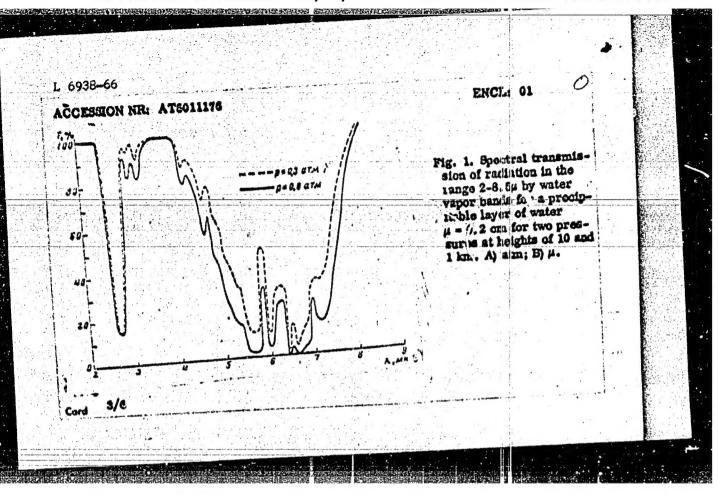
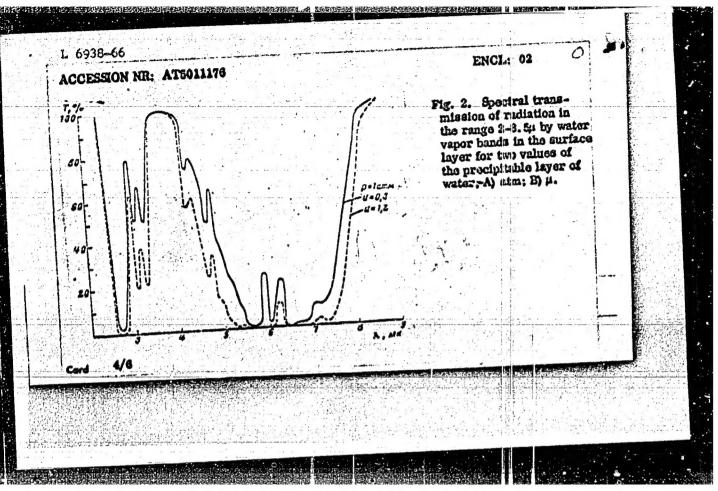
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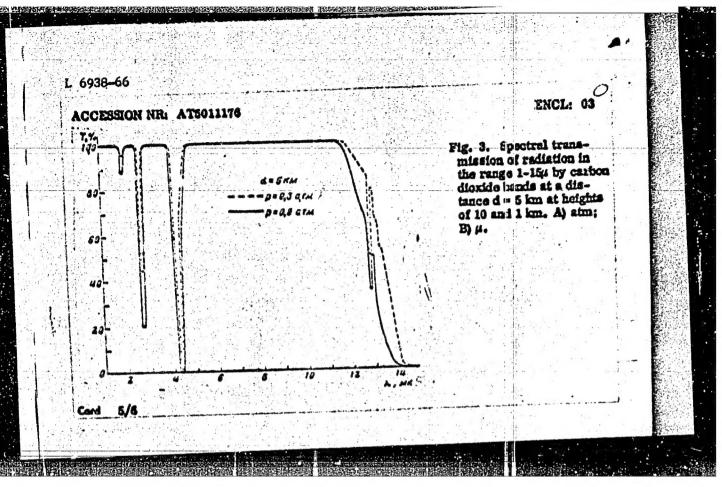


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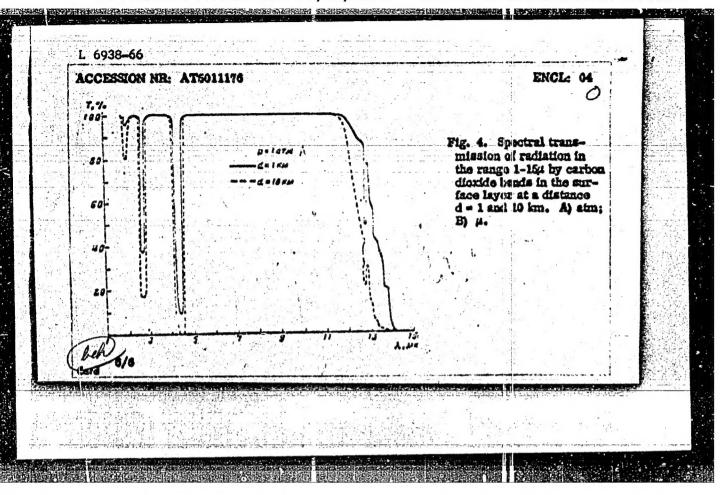
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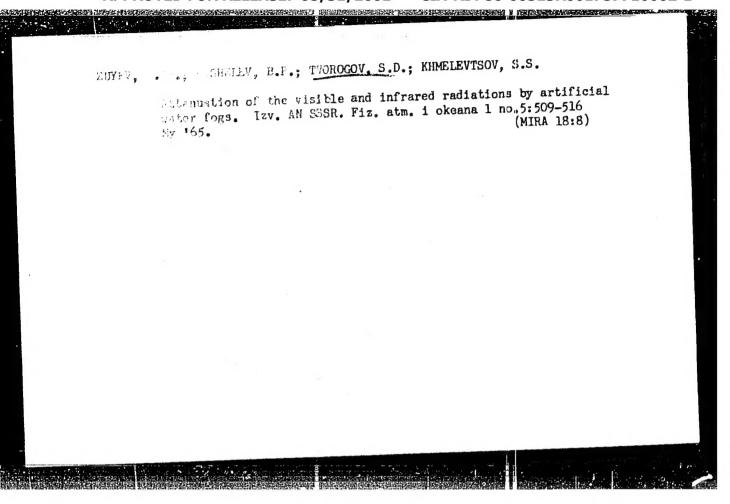


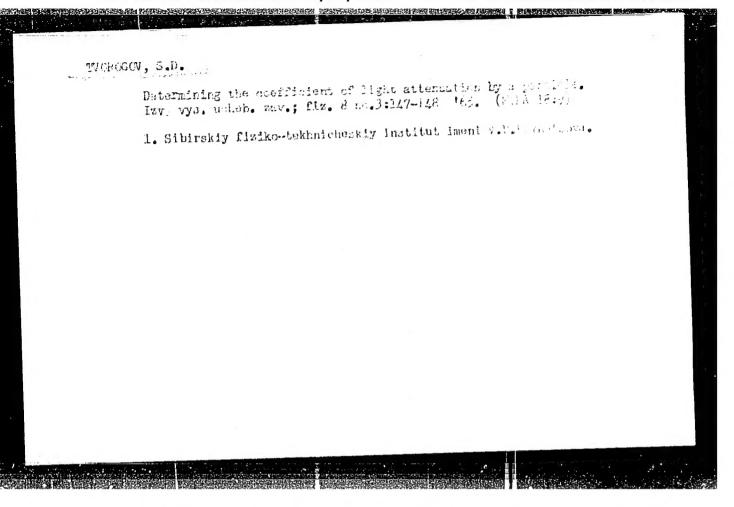
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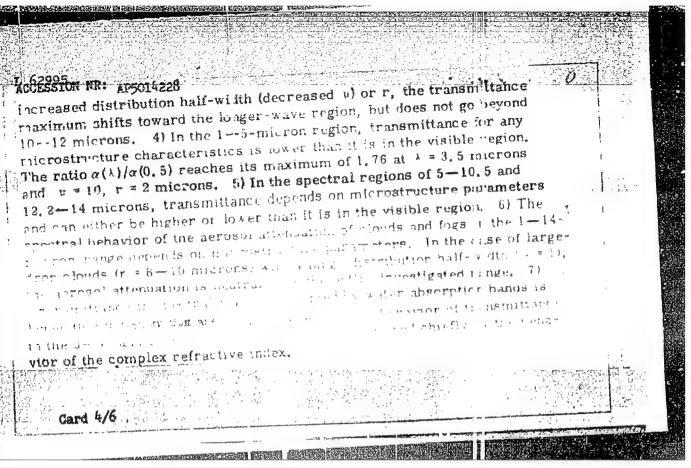
Scalar approximation in the problem involving the scattering of a plane light wave on a sphere. Izv.vys. uchek. zav.; fiz. 8 no.3: (MRA 18:9) 175-176 '65.

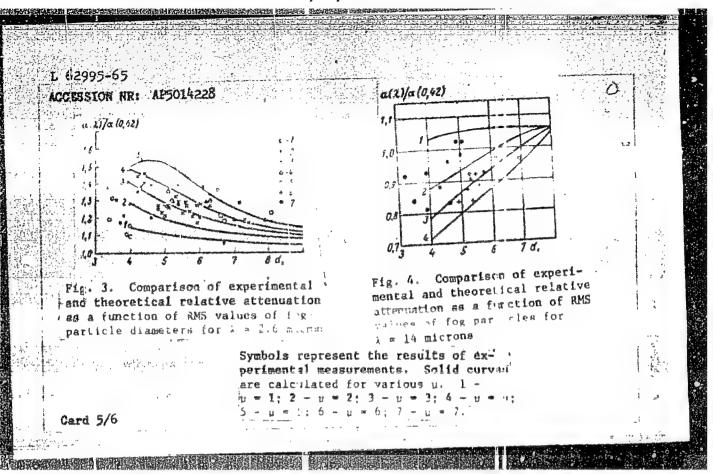
1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D.Kuzuotsova.

L 62995-65 ENT(1)/FCG GH UR/0362/65/005/005/0509/0516 ACCESSION NR: APSOL4228 Zuyev. V. Ye.: Koshelev, B. P.; Tyor-zov, S. D.; Khmelertsov, S. TITLE: Attenuation of visible and infrared radiation by artificial SOURCE AN SSER Trenting Pizika atmosfer okeens v. L. 10 5, 1965. 509-516 TOPIC TACS: cloud physics, fog. IR radiation, atmospheric physics, atmospheric optics ABSTRACT: The optical and microphysical properties of fog were investigated theoretically and experimentally by a group associated with the Siberian Physicotechnical Institute. Data on the attenuation of visible and infrared radiation in fogs calculated with allowance for polydispersion and absorption in water droplets were compared with results of experimental determinations of the spectral transmittence of artifically created fog. Card 1/6

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It is evident from the figures that the spectral behavior of the drop-size distri- lattenuation essentially depended on the parameters of the drop-size distri-	10.40 10.00	Ш
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On the basis of an analysis of the theoretical results, the clusions were drawn: 1. In the visible region, $\alpha(\lambda)$ is practically independ clusions were drawn: 1. In the visible region, $\alpha(\lambda)$ in the 10.5—12.2-micron		
clusions were drawn: 1. In the visible region, at 1 is 5-12, 2-micron clusions were drawn: 1. In the visible region, 2) In the 10.5-12, 2-micron cluster of wavelength for all clouds and fogs. 2) In the 10.5-12, 2-micron cluster of wavelength for all clouds and fogs. 2) In the visible region. 3) With	1	
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BETTER OF THE PARTY OF A PARTY.	Fig. 1. Calculated relative attenuation as a function of wave- length for $u = 2$ 1 - r = 2; 2 - r = 3; 3 - r = 4; 4 - r = 5; 5 - r = 8; 6 - r = 10.	Fig. 2. Calculated relative attenuation as a function of wavelength for 1 = 10. Destignations of curves are the same as in Fig. 1.





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1 1	The theoretical results were compared with experimental data obtained		1
	in artificial fogs. The equipment used in the experiments was capable of	-	2
	measuring fog particles ranging in size from the very largest of 0,8-1.0 miscrons in diameter. Over 2000 spectral measurements were made from		
į	800 drop et samples from 120 artificially created fogs. The optical density		
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	montal values of relative attenuation as a function of RMS values of reg	Į	
-	particle diameters for various u. Figs. 3 and 4 show these values for the particle diameters for various u. Figs. 3 and 4 show these values for the particle diameters for various u. Figs. 3 and 4 show these values for the	1	5.0
1	factory agreement between experimental and theoretical values over the		,
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1.	evtsov, S. S.
5	OURCE: Meshvedomstvennoye soveshchaniye po aktinometrii i optile atmosfery. Sth. Moscow, 1363. Aktinometriya i optika atmosfery (Actinometri and atmospheric optics); trudy soveshchaniya. Moscow, Izd-wo Nauka, 1964, 96-101
advised	TOPIC TAGE: attificial fog, spectral transparency, artificial fog microstructure, serosol, fog
	ABSTRACT: The article discusses the results of a complete properties of article are resulted and migrophysical properties of article are resulted and migrophysical properties of article are accounted and polydistrated are resulted. Gimil tenerially performed areas are also
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possible to quantitatively compare the theoretical and experimental data. calculations show that the spectral variation of the relative attenuation coefficient depends greatly on the particle size distribution. It all cases the transparency of a fog is lower in the 2-5 m region than in the visible region, whereas in the 10-124 region all fogs are more transparent than in visible light wavelength. In the 3 -- 100 region, the transparency can be either smaller or in a sure to employ against all ; by the magnitude

apectral optical measurements were made in an any volume, using a grecially constructed photometer and an IKE-6 in rared spectrometer for the measurement of the transparency in the physical and influred regions. All optical and microphysical measurements were made for the spritral region near 0.42 and simultaneously in the infrared region at 2.15, 3.7, 5.5, 8.0, 10.0, and 11.8 . The optical density of the fogs ranged from 0.1 to 1.5, and the attentuation for visible light ranged from 2 x 10⁻⁴ to 52 x 10⁻⁴ cm⁻¹. The agreement that the strength and the stren once account is taken of appreciable experimental errors. Orig. art. uas;

[02] figures and 10 formulas.

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TVOROGOV, S.D.

Optical properties of aerosol. Trudy Astrofiz.inst.AW Kazakh. SSR 3:105-107 '62. (MIRA 16:11)

TVOROGOV, S.D.

On certain representations of an analytic expression for the coefficient of light attenuation of the aerc-ol component of the atmosphere. Izv.vys.uch.zav.; fiz. no.4:175-176 '62:

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V. Kuybysheva.

(Atmospheric transparency)

	The triangle of the control of the c	
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At	UTHOR: Tvorogov, S.D.	
	of aerosols	e optical characteristics
So	institut. Trudy.	zakhskoy SSR. Astrofizicheskiy v. 3. 1962, Rasseyaniye i veta v zemnoy atmosfere; materialy rasseyaniyu i polyarizatsii 2. 105 - 107
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$$F(z,t) = e^{-t/4} \cdot \frac{1}{\sqrt{\pi t}} \int_{0}^{\infty} C^{2}e^{-1/t(1\pi C)^{2}} K(z,T)dT. \qquad (3)$$

where z=2 mr/\lambda; \lambda is the wavelength of the incident light and K is the extinction function introduced in Mie's theory. After calculations, one obtains the following formula for the numerical integration of (3)

$$\psi_{i,k} = \frac{1}{2^{k}} \sum_{p=0}^{k} \varphi_{i-k+2p} \cdot c_{k}^{p}$$
 (10)

where Cp is the binomial coefficient and \$\psi\$ is a function which satisfies the heat-flow equation. Formula (10) was obtained by the method of nets. This formula can be also used for calculating the scattering function and other elements of the scattering matrix.

Card 2/2

TVOROGOV, S.D. Theory of light scattering by a highly disperse system of spherical particles. Izv.vys.ucheb.zav.; fiz. no.1:87-93 *61. (MTRA 14:7) 1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstennom universitete imeni V.V.Kuybysheva. (Light—Scattering) (Atmospheric transparency) (Acrosols)

TVOROGOV, S. D.

Possibility for using the method of difference in calculating the coefficient of light attenuation for the aerosol component of the atmosphere. Izv. vys. uch. zav.; fiz. 3:174-1.75 62. (MIRA 15:10)

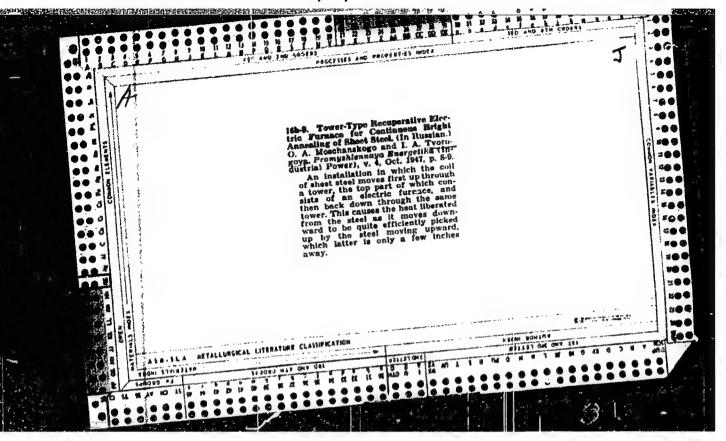
1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomakom gosu-darstvennom universitete imeni Kuybysheva.

(Atmospheric transparency) (Aerosols)

TVOROGOVA, A. S.

Yu. A. Orfanitskiy, M. A. Fedchenko, and A. S. Tvorogova on "Soil Problems connected with the problem of clearance types.

report presented at the Conference on Forestry, Arkhangel'sk, 14-15 April 1958 (Vest. Ak Nauk SSSR, 1958, No. 7, pp. 133-4)



s/169/62/000/006/031/093 D228/D304

AUTHOR:

Tvorogova, I. A.

TITLE:

Abyssal geologic structure of Turkmeniya's north-west

part according to aeromagnetic data

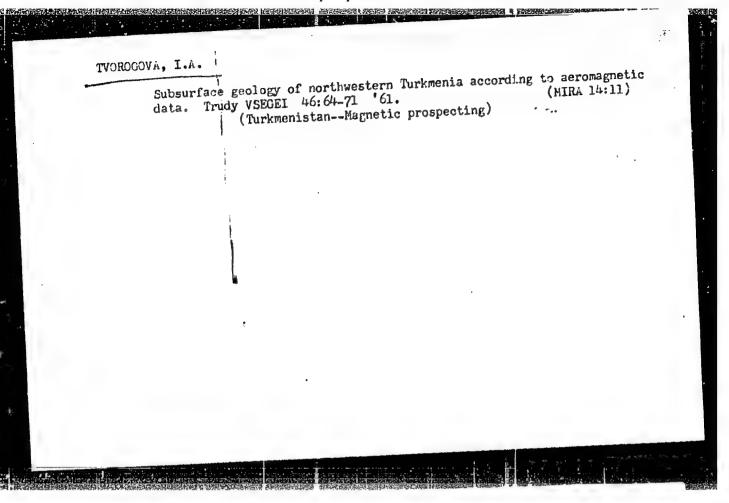
PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 6, 1962, 30, abstract 6A221 (Tr. Vses. n.-i. geol. in-ta, 46, 1961,

64-71)

TEXT: The results of the interpretation of aeromagnetic survey data are described. Mass determinations of the Paleczoic basement's depth were made, and a schematic map was constructed for the depths of the disturbing bodies. / Abstracter's note: Complete translation. 7

Card 1/1



TVOROGOVA; BADAMYAN; KUREOSOV, M.A.; ZAGATIN, M.F.; RETTMAN, I.M., redaktor; PRIROVA, Ye.A., redaktor; TRUFIMOV, A.V., tekhnicheskiy redaktor

[Catalog of spare parts for perroleum equipment] Katalog zapasnye k neftianomu oborudovaniiu. Moskva, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry. Pt.2. [Equipment for drilling wells. Section 1. Drill winches. No.2. Four-speed drill winch, model L1-4M2] Oborudovanie dlia bureniia skvazhin. Section 1. Lebedki burovye. No.2. Lebedka chetyrekhskorostnaia L1-4M2. 1955. 33 p. Pt.3. [Equipment for operating wells. Section 2. Deep well non-insert (pipe) pumps. No.4. NGN2-56. Section 3. Deep well insert pumps. No.5.NGN3-56 3"-1800 (NGB1-56)] Oborudovanie dlia ekspluatatsii skvashin. Section 2. Nasosy glubinnye nevstavye (trubnye). No.4. NGN2-56. 1955.15 p. Section 3 Nasosy glubinnye vstavye. No.5. MGN3-56 "3-1800 (NGV1-56). 1955. 10 p. (MIRA 9:3)

1. Soyuznefteburmashremont, Gosudarvennyy soyuznyy trest. (Oil well pumps) (Petroleum industry--Equipment and supplies)

ABRAMOV, M.A.; ALIVERDIZADE, K.S.; AMIROV, Ye.M.; ARENSON, R.1.; ARSEN'IEV, S.I.; BAGDASAROV, R.M.; BAGDASAROV, G.A.; BADAMYANTS, A.A.; DANIYELIAN, G.N.; DZHAFAROV, A.A.; KAZAK, A.S.; KERCHEMSKIY, M.M.; KOHYULKHOV, S.I.; KRASNOBAYEV, A.V.; KURKOVSKIY, A.I.; LALAMAROV, G.S.; LARIONOV, Ye.P.; LISTENGARTEN, M.Ye.; LIVSHITS, B.L.; LISIKYAN, K.A.; LOGINOVSKIY, V.I.; LYSENKOVSKIY, P.S.; MOLCHANOV, G.V.; MAYDEL'MAN, N.M.; CKHON'KO, S.K.; ROMANIKKIN, V.A.; ROSIH, I.I.; RUSTAMOV, E.M.; SAMKISOV, R.T.; SKRYPNIK, P.I.; SOBOLEV, N.A.; TARATUTA, R.N.; TYOROGOVA, L.M.; TER-GRIGORYAN, A.I.; USACHEV, V.I.; FAYN, B.P.; CHICHEROV, L.G.; SHAPIRO, Z.L.; SHEVCHUK, Yu.I.; TSUDIK, A.A.; ABUGOV, P.M., red.; MARTYNOVA, M.P., vedushchiy red.; DANIYELYAN, A.A.; TROFIMOV, A.V., tekhn.red.

[Oil field equipment; in six volumes] Neftiance oborudovanie; v shesti tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.3. [Petroleum production equipment] Oborudovanie i instrument dlia dobychi nefti. 1960. 183 p. (MIRA 13:4)

(Oil fields -- Equipment and supplies)

TVORCGOV, N.N., NOROLEV, G.V.

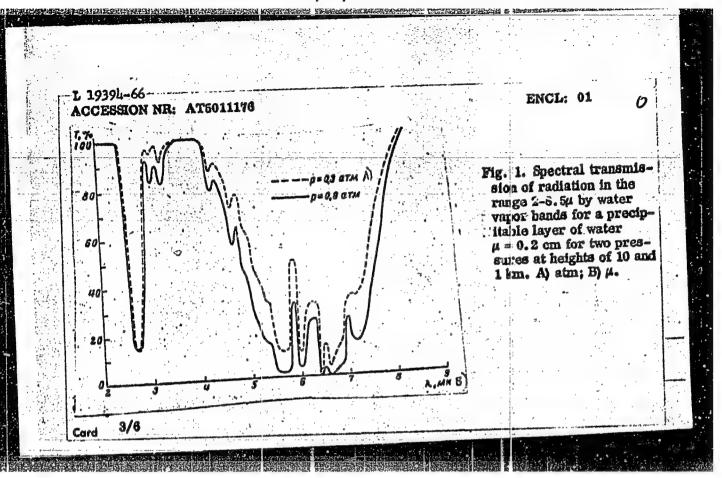
Polymerization of highly viscous sedla and three-dimensional polymerization. Fart 5: Apparatus for studying unsteady stats kinetics (pre- and post-effect) in the case of the polymerization of polyester morylates. Vysokom.coed. 6 no. 5:877-89) by 164.

[Maid 17:1]

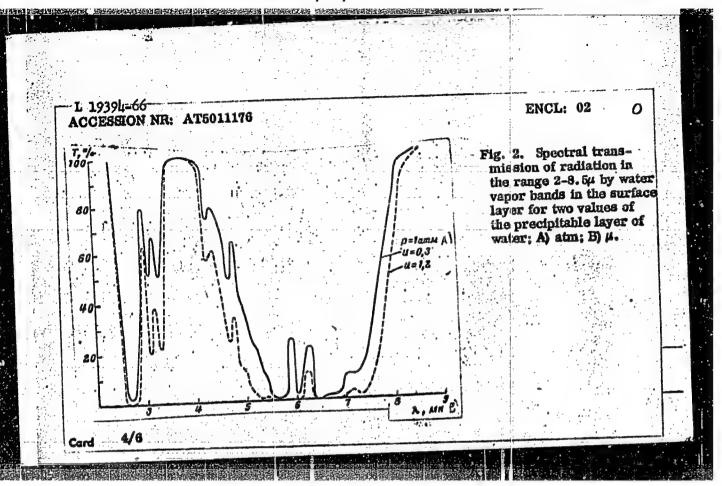
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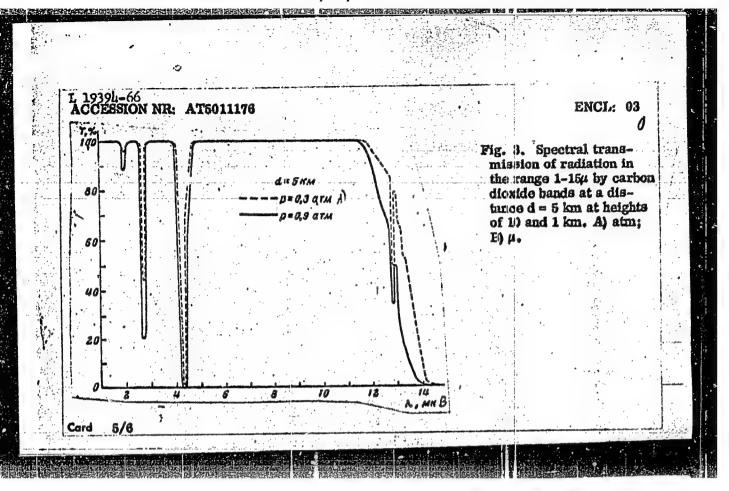
GW/GS ENT(1)/FCC 19394-66 UR/0000/64/000/000/0224/0226 ACCESSION NR: AT5011170 AUTHOR: Zuyev, V. Ye.; Nesmelova, L.I.; Sapozhnikova, V.A.; Tvorogov, TITLE: Calculations of atmospheric transparency for infrared radiation SOURCE: Mezhvedomstyennoye soveshchaniye po aktinometrii i optike atmosfery. 5th, Moscow, 1963. Aktinometriya i optika atmosfery (Actinometry and atmospheric optics); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 223-296 TOPIC TAGS: infrared radiation, atmospheric water vapor, atmospheric transparency, atmospheric light absorption, atmospheric optics ABSTRACT: Precise computation of the absorption coefficient and the absorption function for the infrared absorption spectra of the principal absorbing components of the atmosphere is discussed. Such computations require knowledge of a large number of parameters characterizing both the molecule whose absorption spectrum is radiated and the transitions causing the presence of these lines and bands. Since much computation work is involved, simplification has been sought by using models of absorption bands. In this paper, the quasi-statistical model is used (V. R. Stull, P. J. Wyatt, G. N. Plass, Final report of the theoretical study of infrared radiative behavior of flames, 1961). In this approach, the 1/6 Card

L 19394-66 ACCESSION NR: AT5011176 statistical model is applied to a quite narrow spectral range so that, within this interval, any position of lines is equi-probable. The values for water vapor, carbon dioxide and ozone used in this paper were taken from the literature. Computations of absorption in the ozone band were made for heights of 10 and 21 km. The results are shown in Figures 1-4 of the Enclosure. Figures 1 and 2 show the spectrum of the water vapor and carbon dioxide bands (with overlapping taken into account) for pressures of 1 and 0.3 atm. Fig. 3 shows the absorption spectrum of water vapor for different pressures. Fig. 4 shows the absorption of carbon dioxide. Orig. art. has: 4 figures. ASSOCIATION; Sibirskiy fiziko-tekimicheskiy institut pri Tomskom gosudarstvennom universitete (Siberian Physics and Technology Institute at Tomak State University) SUB CODE: E8 ENCL: 04 SUBMITTED: 25Nov64 OTHER: 004 NO REF SOV: 001



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ZUYEV, V.Ye.; TVOROGOV, S.D.

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Informative announcement on the intercollegiate scientific conference on the spectral transparency of the atmosphere in the visible and infrared spectral regions. Izv. vys. ucheb. zav.; fiz. 8 no.4:185-186 '65. (MIRA 18:12)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D. Kuznetsova. Submitted July 16, 1965.

ZUYEV, V.Ye.; KABANOV, M.V.; KOSHELEV, B.P.; TVOROGOV, S.D.; KIMIELEVTSOV, S.S.

Spectral transparency and microstructure of man-made fogs. Part 1. Izv. vys. ucheb. zav.; fiz. no. 2:90-97 '64. (MIRA 17:6)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva.

ACCESSION NR: AP4036563

B/0139/64/000/002/0090/0097

AUTHORS: Zuyev, V. Ye.; Kabanov, M. V.; Koshelev, B. P.; Tvorogov, S. D.; Khmelevtsov, S. S.

TITLE: Spectral transparency and microstructure of artificial fog. 1

SOURCE: IVUZ. Fizika, no. 2, 1964, 90-97

TOPIC TAGS: fog, spectral transparency, infrared spectrometer, photometer, droplet concentration, water content, spectrometer IKS 6, photometer FEU 22

ABSTRACT: The details of an experimental analysis in the study of artificial fog microstructure and spectral transparency are presented. All measurements were made in artificial fog created by evaporation in a 15-3 m chamber. An IKS-6 infrared spectrometer was used to determine transparency in the region 2-15 μ , and a photometer FEU-22 was used to determine the transparency in regions 0.42, 0.68, 0.94 and 1.03 μ with 20-30 m μ width. Probes were placed in the chamber to determine droplet concentration, droplet distribution functions and parameters, and water content of the mist. The instruments included flow traps of shift and reel type, curvilinear flow traps for fine-droplet capture, and optical instruments with remote control. An attempt was made to measure spectral transparency simultaneously with

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ACCESSION NR: AP4036563

taking microstructure measurements determined from parameters:

$$q = \frac{\pi}{6} \sum_{i} n_i d_i^3 ; \qquad d_2 = \sqrt{\frac{\sum_{i} n_i d_i^3}{\sum_{i} n_i}} ; \qquad d_3 = \sqrt{\frac{\sum_{i} n_i d_i^3}{\sum_{i} n_i}} .$$

where q - water content of fog, d2- mean squared diameter, d5 - mean cubic diameter, n_1 - droplet concentration. The results show that (for droplets with diameters greater than 3 μ) the capture coefficient of curvilinear flow traps is unity. A parameter was found for correlating the microstructure data given by: $k_{0.42}/2S_g = C$, where S_g - geometric cross section of droplet per unit volume, $k_{0.42}$ - attenuation coefficient, and C varies between 1 and 7. A graph of $k_{\lambda}/k_{0.42}$ versus λ for k_{λ} shows a "transmission window" in the vicinity of 10 μ . This "window" moves towards larger wavelengths as the droplet mean squared dismeter increases.

Orig. art. has: 4 figures, 2 formulas, and 1 table.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete

imeni V. V. Kuyby*sheva (Siberian Physicotechnical Institute, Tomak State University)

SUBMITTED: 04Jun63

DATE ACQ: 05Jun64

encl: 00

SUB CODE: ES

NO REF SOV: 013

OTHER: 003

Card 2/2

سكنس

ZUYEV, V.Ye.; TVOROCOV, S.D.

Calculating the absorption function for nonuniform paths.

Izv. vys. ucheb. zav.; fiz. 8 no.6:84-86 '65.

(MIRA 19:1)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D.

Kuznetsova. Submitted July 15, 1964.

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757710002-1

NR. AP6002086

SOURCE CODE: UR/0139/65/000/006/0084/0086

ACC NR:

AUTHOR: Zuyev, V. Ye.; Tvorogov, S. D.

ORG: Siberian Physico-Technical Institute im. V. D. Kuznetsov (Sibirskiy fiziko-

tekhnicheskiy institut)

TITLE: Calculation of absorption functions for inhomogeneous beam paths

IVUZ. Fizika, no. 6, 1965, 84-86

TOPIC TAGS: atmospheric optics, absorption function, light attenuation, atmospheric SOURCE:

ABSTRACT: Consideration of atmospheric transparency to inclined beams of light and the theory of radiation transfer in the atmosphere call for the computation of absorption functions for the case of variable pressure paths. In this connection, arguments are offered in favor of applying the method of weighted mean pressure p

 $\overline{p} = \frac{\int \rho(s) p(s) ds}{\int \rho(s) ds}$

to the problem of calculating the radiation absorption function $H = A(m, \overline{p})$, where H and A are absorption functions in the interval $\Delta \gamma = v'' - v'$ for the case of variable

1/2

t: 3961:8=66

AP6002086 ACC NR APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757710002-1 and constant pressures along the beam path, v is the frequency, and m= 1/(3)/05/1010002-1 the case of a constant pressure along the light beam path. Results of calculations using the above formulas and numerical integration were compared and indicate that even under the most adverse conditions the relative error introduced by the derived formulas is of the oreder of 0.003 for spectral intervals of 0.1 µ and practically zero for larger spectral intervals. Orig. art. has: 12 formulas.

04 SUB CODE:

SUBM DATE: 15Ju164/ ORIG REF: 001/ OTH REF: 005/ ATD PRESS:

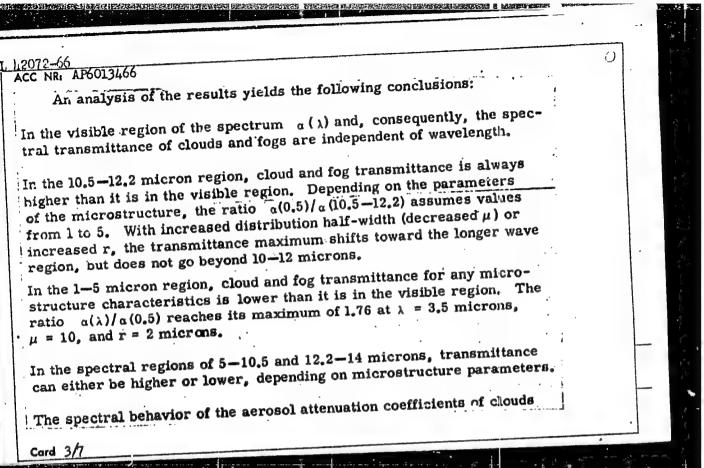
12072-66 EWT(1) RO/GW ACC NR: AP6013466	SOURCE CODE: UR/0139/66/000/002/0143/0150
AUTHOR: Zuyev, V. Ye.; Tvorogov	
ORG: <u>Siberian Physicotechnical İn</u> Lekhnicheskiy institut)	nstitute im. V. D. Kuznetsov (Sibirskiy fiziko-
TITLE: The effect of microstructuspectral transmittance in the 0.5-	re parameters of water clouds and fogs on their
SOURCE: IVUZ. Fizika, no. 2, 1966	5, 143-150
TOPIC TAGS: atmospheric cloud, for refraction, optic transmission, op	og, cloud physics, distribution function, atmospheric ptic spectrum
clouds and fogs is analyzed by co	ry factor for radiation attenuation by water insidering their true polydispersion and The aerosol coefficients of water clouds
clouds and fogs is defined as the	or (F) for radiation attenuation by water ratio of the attenuation coefficient of
the agrosol component of the atme	osphere to the particle cross section some special properties of the drop-
state distribution function, which	can be determined from logar thmically
normal and gamma-distribution r	relations, several formulas are derived
Card 1/7	

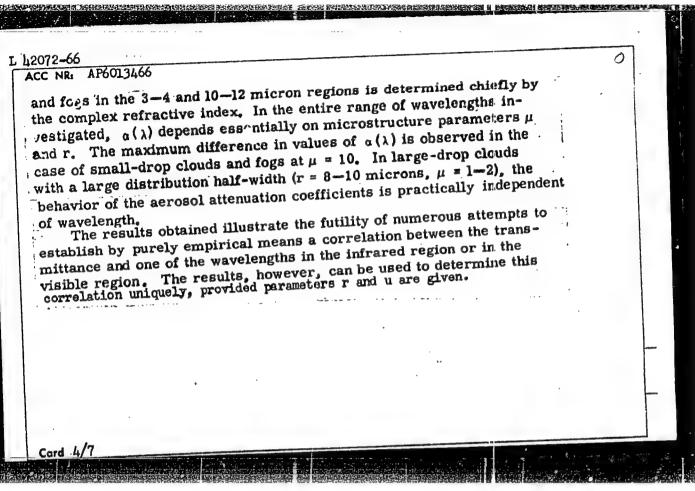
0 L 42072-66 ACC' NR: AP6013466 for calculating F. These expressions are then used to analyze qualitatively the dependence of F on the microstructure characteristics of water The behavior of function F is analyzed for various values of & clouds and fogs. and μ , where β is the phase angle and μ is the parameter characterizing the distribution half-width. It is found that with increased & the maximum of F is decreased. This maximum varies with decreased μ , but only for small values of β . Thus, the maximum of F appears to be narrower the smaller the distribution half-width. This indicates that calculations of the spectral transmittance of water clouds and fogs made without considering their microstructure and complex refractive index will not yield reliable results. Bearing this fact in mind, the aerosol attenuation coefficients $\alpha(\lambda)$ are also calculated and analyzed for various values of μ and r, where ris the most probable particle distribution radius. The results of the calculations are illustrated in Figs. 1-6. The data presented in these figures cover practically all the different microstructure characteristics encountered in the atmosphere of liquid clouds

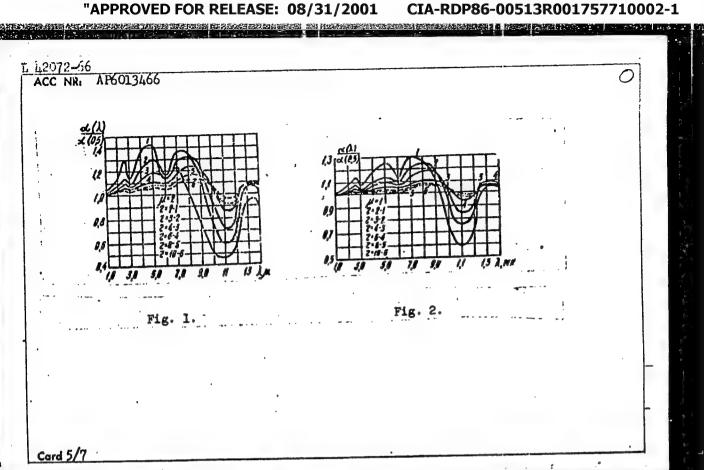
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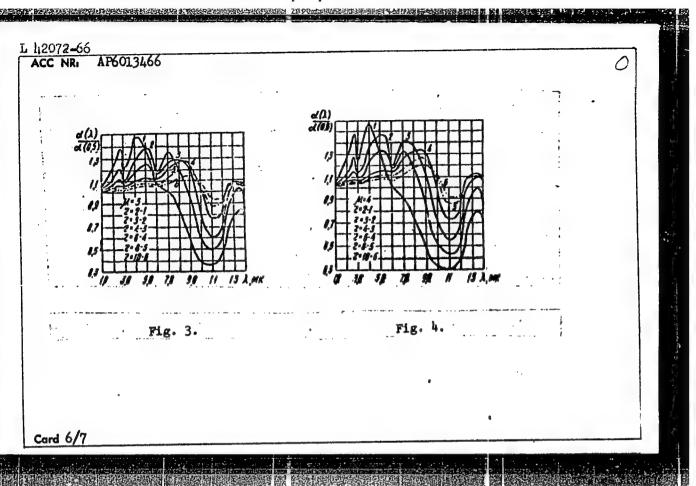
and fogs.

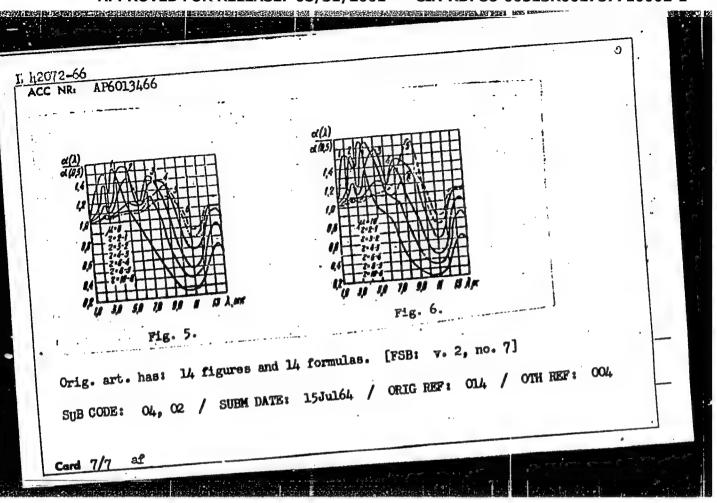
Card 2/7











SOURCE CODE: UR/0139/65/000/004/0185/0186 44211-66 ACC NR. AP5021189

Zuyev, V. Ye; Tvorogov, S. D. AUTHOR:

Siberian Physico-Technical Institute imeni V. D. Kuznetsov (Sibirskiy fiziko-ORG:

tekhnicheskiy institut)

Scientific conference on spectral transparency of the atmosphere TTTLE:

IVUZ. Fizika, no.,4, 1965, 185-186 SOURCE:

TOPIC TAGS: atmosphere, atmospheric optics, atmospheric radiation, atmospheric transparency, laser radiation, meteorologic conference, mulicular

ABSTRACT: An Interinstitutional Scientific Conference on the Spectral Transparency of the Atmosphere in the Visible and Infrared Spectral Regions has been held in Tomsk from 29 June-1 July 1965. Participating in the conference were 127 representatives from 15 cities; 45 papers were presented and discussed. The authors of the papers dealt mainly with the basic processes determining the transparency of the atmosphere: molecular absorption, scattering of light by aerosol particles, and propagation of waves in a turbulent dedium. Some papers described new equipment. It was noted at the conference that modern methods of molecular spectroscopy are being used in the research work dealing with the theoretical and experimental analysis of molecular ansorption in the

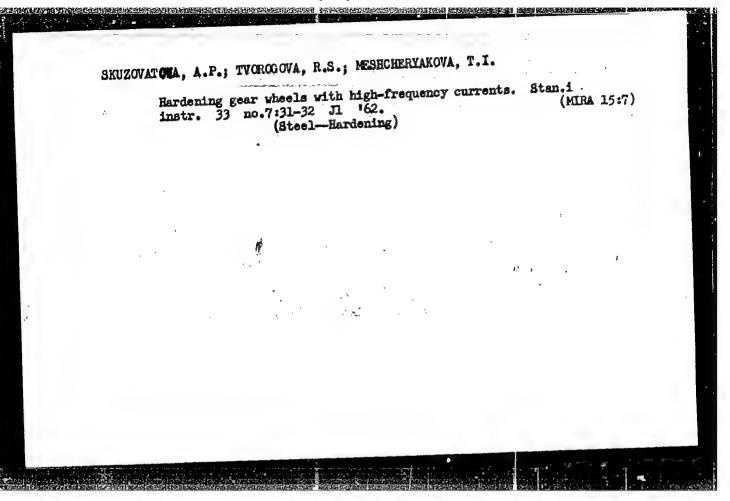
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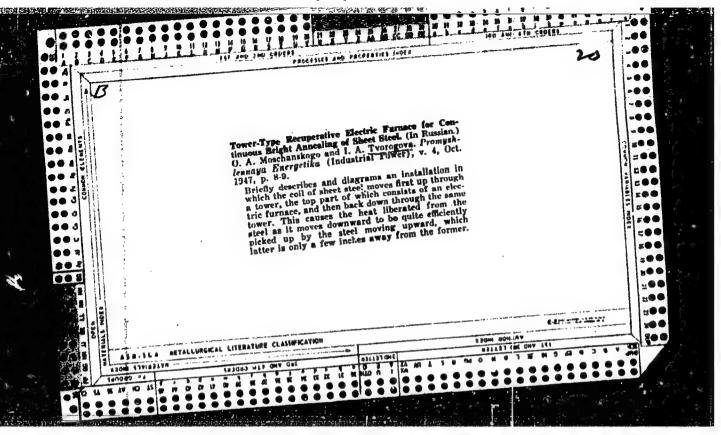
L 44211-66

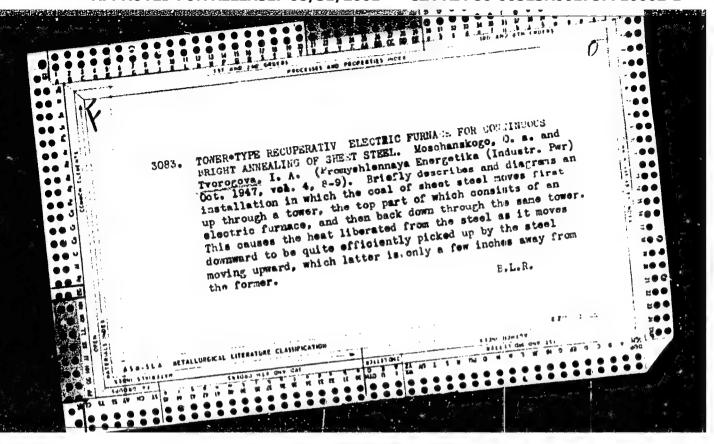
ACC NRAPPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757710002-1

atmosphere. Analysis of the problem of light scattering by the particle system is also making progress from the poing of view of electrodynamic. Two new scientific and practical problems have begun to attract attention recently: particular features of the propagation of laser radiation in the atmosphere and interpretation of the optical and radiation data of the earth's artifical satellites. Since the problem of atmospheric transparency has important practical applications, many researchers have paid particular attention to the quantitative characteristics which determine the general decrease in the intensity of radiation propagted in the atmosphere.

SUB CODE: 04, 20 / SUBM DATE: 16Jul65







BLOKH, G.S.; ZABREBNEVA, A.V.; ZUBAREV, K.A.; FECHURO, S.S.; TVOROGOVA, Ye.L.; GNATYUK, T.A.

Producing gypsum fiber sheets on round-screen sheet-making machines. Stroi. mat. 8 no.2:15-17 F '62. (MIRA 15:3) (Gypsum products)

Manufacture of Piston Rings for Model Airplans engines A(Gayevakiy, or the Market of the Market of Ringline Mounting an Incandescent Flug on the MX-123 Compressor Engine Mounting an Incandescent Flug on the MX-123 Compressor Engine (Designation Flug of Ringlines (Origonesko, A.) Openation minor for Model Airplane Engines (Origonesko, A.) Openation minor for Model Airplane Engines	for Flying Foders (Shighor, Ye., 1968) igned by T. Perichov (Gayer- igned by T. Perichov (Gayer- and MEX-05-F (Gayerakiy, 0.) so (Gayerakiy, 0.) sodel Airplane Engines	(Vasii'-	Designing Hodels (Marwarev V.) Designing Hodels (Marwarev V.) Designing Hodels (Marwarev V.) Altyline Hodels (Marwarev V.) Altyline Hodels (Marwarev V.) Discor Mylag Hodel (Marwarev (Marwarev V.) Pushing Hodel (Markin (Marwarev V.) Migh-Speed Hodel (Markin V.)	is to A. Armadinov (Vinting, Qu) is to T. Armadinov (Vinting, Qu) is tor (Zrenk, Ni.) ; Nodele (Sokolov, Ni.)	neory or sourcing averaged wodels for Rectilinear louisting High-Speed wodels for Rectilinear louisting Middle Arrelation	With Reduced	boice of Propeller and Fabb	repose, the book is intended for interactors and diversors and clare populated by DOLALY (All-Onion follution) bods if for promotion of the Army, Mays, and Mir Porce). Bods if the account of the Army, Mays, and Mir Porce of the Army, Mays, and distribution and operation. The text of model already descriptions and distribution and operation. The text contains and illustrations and distribution and operation.	Compilers E.B. Frickrumor, Candidate of Technical Sciences, and M.S. Labedinatcy, Candidate of Technical Sciences; Ed.: M.S. Labedinatcy, Tech. Ed.: V.I. Kornsyeva.	PHASE I BOOK EXPLOITATION 307/1020 Aviandeliza, aborak statey. Posoblye dive rukovoditeley avianudel'. Aviandeliza, aborak statey (Aircraft Sudbing; Collection of Articl iyth kruzhkov i uchifeley (Aircraft Chuse and Rechere) Twitbook for Instructors of Hodel Aircraft Chuse and Rechere) Twitbook for Instructors of Hodel Aircraft 5,000 copies printed.	
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27913 3/080/61/034/010/006/016 D245/D302

15.2420

AUTHORS

Tvorogov, N. N.

TITLE:

A method of obtaining dielectric layers of alumina

PERIODICAL:

Zhurnal prikladnoy khimii, v. 34, no. 10, 1961, 2203-2276

Dielectric Al₂0₃ layers on Ta and W surfaces were prepared by thermal dissociation in vacuo of $Al(0C_2H_5)_3$. These layers had high density, TEXT: transparency and clearly defined crystalline structure. Preparation of similar layers of ${\rm Si0}_2$ and ${\rm B}_2{\rm O}_3$ by the author, described in previous papers (Ref. 1: ZhPKh, v. 32, 1959, 1043) and (Ref. 2: ZhPKh, v. 33, 1960. 2778) is mentioned. Comparison of the properties of compounds of the type Me(OR) for R = Al, B and Si and for R = Ti, Zr and similar elements suggests the possibility of applying similar techniques to preparing oxide layers of these elements. There are 1 figure, 1 table and 10 references: 7 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language

Card 1/2

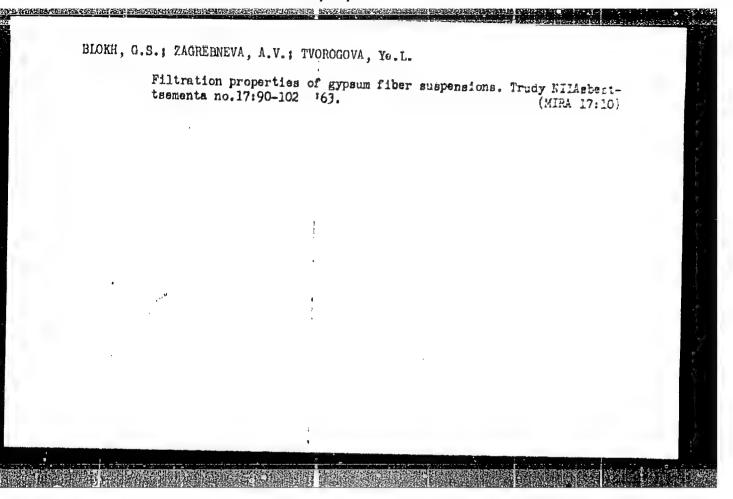
SOMOLENKOV, V.A., TVORTSOV, M.K.

Seminar on standardization in Chuvashia. Standartizatsiia 27
(MIRA 16:4)

(Chuvashia—Standardization)

CIA-RDP86-00513R001757710002-1 "APPROVED FOR RELEASE: 08/31/2001

ZUYEV, V. Ye.; KABANOV, M. V.; KOSHELEV, B. P.; TVOROGOV, S. D.; KHMELEVTSOV, S. S. "The influence of microstructure parameters of clouds and fogs on their spectral transmission in Region 0.5-14 Microns." report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.



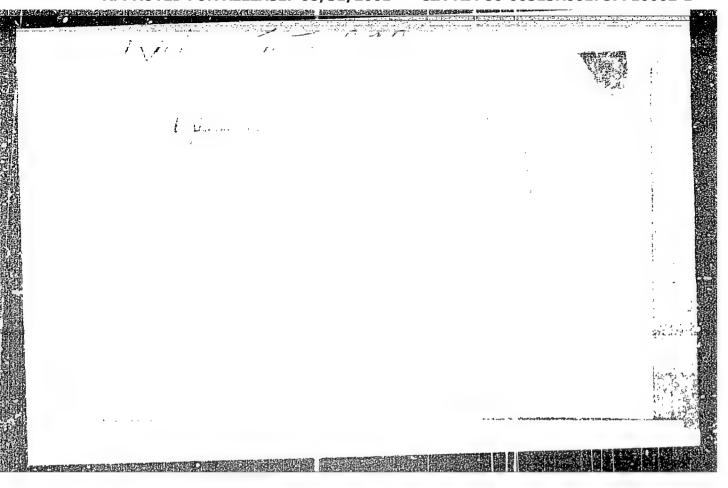
TYCHOVEKLY, S.Ye., inch., VALLER, I.N., Inch., BAB, A.F., Inv.,
LETN'AN, M.D., inch.

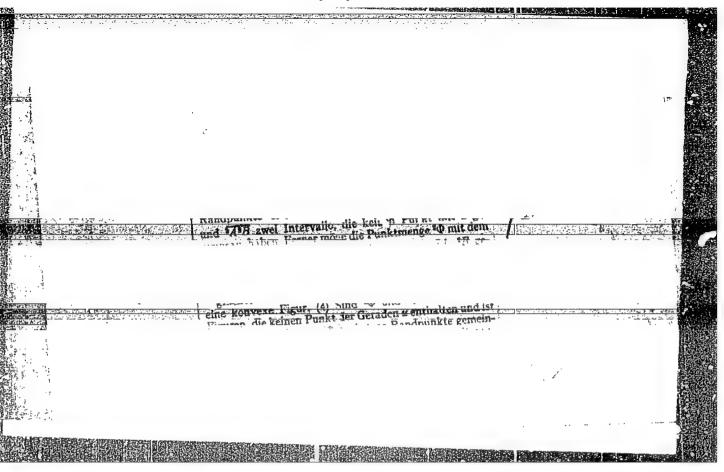
Centralized grinding of metal-cutting tools. Meshinestroomic (MSSA 1819)

TVRDA, T.

"Amount of Convex Figures." p. 218, (MATERITICEO-FIZIBARTY Casario, Vol. 4, No. 4, 1954, Bratislava, Czechoslovakia)

SO: Konthly List of East European Accessions, (Edan, LC, Vol. 4 No. 5, May 1955, Uncl.





L 23538-66 EWT(1)/T ACC NR: AP6013988 SOURCE CODE: UR/0216/65/000/001/0066/0074 Satarova, N. A. Tvorus, Ye. K. Tvorus, E. K. AUTHOR: 31 ORG: Institute of Plant Physiology. AN SSSR. Moscow (Institut fiziologii rastenii TITIE: Effect of high temperatures and drought on RNA content and protein synthesis SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 1, 1965, 66-74 TOPIC TAGS: biosynthesis, protein, RNA, nucleic acid, plant metabolism ABSTRACT: Until recently the depression of growth processes and marked disturbances in protein avoither the influence of drought and elevated temperatures have not been considered from the standpoint of a relationship between the protein problem and the metabolism of nucleic acids. Now it is known that growth, formative processes, and productivity in plants are very closely related to protein synthesis, in which RNA participates. The authors describe the results of an experimental investigation of the effect of a temporary (12-24-hr) increase in temperature (to 40-42 C) and of atmospheric drought on the RNA and protein content of the leaves of the potato plant. It is found that then the protein partially decomposes while the RNA content remains essentially the same and, in the leaves of temperature-hardened and **Card 1/2** 581.19: 612.015.33

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Further with N ¹ rate of N ¹⁵ in complex	RNA cont showed t protein a the uppe chain of	ent decrease he existend ynthesis. r leaves fo	nigher than ses with incree of a correct the decreased llowing the maynthesis high tempers	elation bei	tween RNA on ichment of dicates the	content and of protein at in the salink to	d the with	
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VESELY,Ct.; TVEDEK,V.; TVEDECVA,E.

Gontribution to the treatment of trichomonal discharge. Cesk, gyn. 25[39] no. 1/2:120-122 Mr '60.

1. II. gyn.-por. klinika EU, prednosta prof. MUDr. J. Lukas, Dr. Sc. (LECKORHAM ther.)

(ANTIMALARIALS ther.)

(ANTIMALARIALS ther.)

TVRDIK, F.

Weather report and meteorologic dispatch. (To be contd.) P. (3) of cover. METEOROLOGICKE ZPRAVY. Vol. 6, No. 2, May 1953

SO: Monthly East European Accession (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

TVRDIK. F.

Weather report and meteorologic dispatch. (To be contd.) p.(3) of cover.

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.

TVRDIK, V.

"Automatic dosing scales for loose materials."

AUTOMATISACE, Praha, Caechoslovakia, Vol. 2, no. 5, May 1959

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, No. 8, August 1959

Unclassified

S/194/62/000/007/033/160 D295/D308

AUTHORS:

Smejkal, Jaromir, and Tvrdik, Václav .

TITLE:

Inductive indicator

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7-2-43 sh (Czech. pat. cl. 21 g,

30/10; 21 c, 40/01, no. 97224, Nov. 15, 1960)

TEXT: The object of the patent is an inductive indicator for the detection of metallic and ferromagnetic bodies. The indicator is a transformer with an open magnetic circuit. To increase sensitivity; a compensation-type measurement method is introduced. Close to the gap of the magnetic circuit is situated a compensation core with a compensation Winding connected in series with the secondary winding of the transformer, so that the emf's induced by the primary winding in the secondary and compensation windings are subtracted. The number of turns of the secondary and compensation windings are so chosen that in the absence of metallic bodies the resulting emf is close or equal to zero. When a metallic body is present, the reluctance of the magnetic circuit of the secondary winding is Card 1/2

Inductive indicator

S/194/62/000/007/033/160 D295/D308

lowered and the magnetic flux through the secondary winding increases; at the same time the flux through the compensation winding decreases and an output voltage arises. 1 figure. [Abstracter's note: Complete translation.]

Gard 2/2

LOCHMAN, Josef, inz.; TVRDIKOVA, Alena, promovany chemik;

Consumption of nutritive substances by red deer (Cervus e elaphus L.). Les cas 10 no.5:495-522 My '64.

1. Research Institute of Forestry and Game Protection,

Zbraslav.

VESELY,Ct.; TVRDEK,V.; TVRDEOVA,E.

Contribution to the treatment of trichomonal discharge. Cesk,

Eyn. 25[39] no. 1/2:120-122 Mr *60.

1. II. Eyn.-por. klinika EU, prednosta prof. MUDr. J.Inkas, Dr. Sc.

(TRICHOMONAS INFECTIONS ther.)

(ANTIMALARIALS ther.)

TVRDON, J.

GEOGRAPHY & GEOLOGY

TVRDON, J. Leos Janacek in the Domanova Caverns. P. 448

Vol. 35, no. 12, Dec. 1958

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 4, April 1959

TYRDON, J.

GEOGRAPHY & GEOLOGY

Periodicals: KRASY SLOVENSKA. Vol. 35, No. 12, Dec., 1958.

TVRDON, J. Leos Janacek in the Demanova Caverns. p. 448.

Monthly Lists of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959.
Unclass.

PROCHAZKOVA, M.; TVRDONOVA, H.

Effect of 3-acetylpyridine on glycemia in normal and adrenalectomized rats. Sborn. lek. 67 no.2;:51-54 F '65.

1. Laborator pro endokrinologii a metabolismus fakulty vsechecneho lekarstvi University Karlovy v Praze (prednosta: akudemik J. Charvat).

TVRTKOVIC, Reuf, sanitetski pukovnik

The problem of the extensive number of sick call in the army.

Vojnosanit. pregl. 21 no.12:782-785 D'64.

TVRTKOVIC, Reuf, sanitetski pukovnik, dr.; TOMASEVIC, Milorad, sanitetski major, dr.

Some clinical and epidemiologic aspects of the atypical pneumonia syndrome. Vojnosanit. pregl. 22 no.4:223-229 Ap'65.

1. Interno odeljenje, Vojna bolnica u Sarajevu.

TVRTKOVIC Reuf d-r.

Two case reports on Henoch-Schonlein syndrome. Med. arh., Sarajevo 11 no.3:33-38 May-June '57.

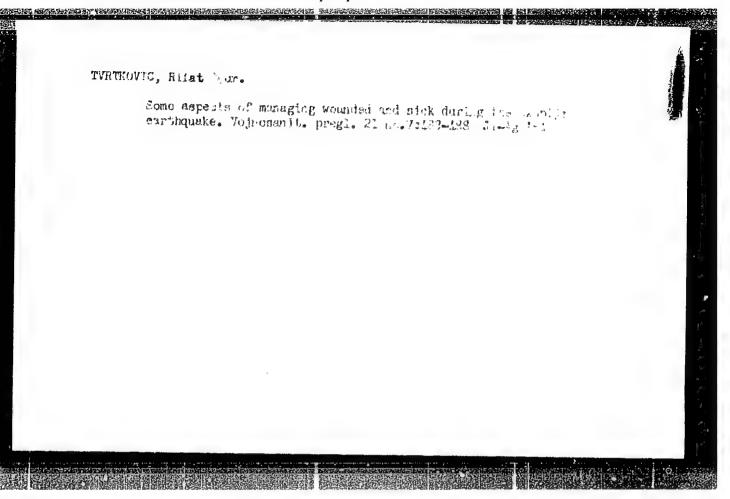
l. Interno odeljenje Vojne bolnice Sarajevo. Nacelnik: d-r Baruh

(PURFURA, NONTHROMBOPENIC, case reports Schoenlein-Henoch's syndrome (Ser))

TVRTKOVIC, Reuf, Dr.; SEEDAREVIC, Hisam, Dr.

Problems of syndrome of atypical pneumonia. Med. arh.,
Sarajevo 10 no.1:27-40 Jan-Feb 56.

1. (Interno odjeljenje Vojne bolnice Sarajevo).
(PNEUMONIA, PRIMANY ATYPICAL,
(Ser))



JEVTIC, Zivojin; TVRTKOVIC, Rifat; PRICIC, Mithat; TRNINIC, Borivoje

- 3 Cases of Pierre-Marie-Bamberger disease. Srpski arh. celok. 1ek. 89 no.10:1207-1212 0 161.
- 1. Hirurska klinika Medicinskog fakulteta Univerziteta u Sarajevu Upravnik: prof. dr Feodor Lukac.

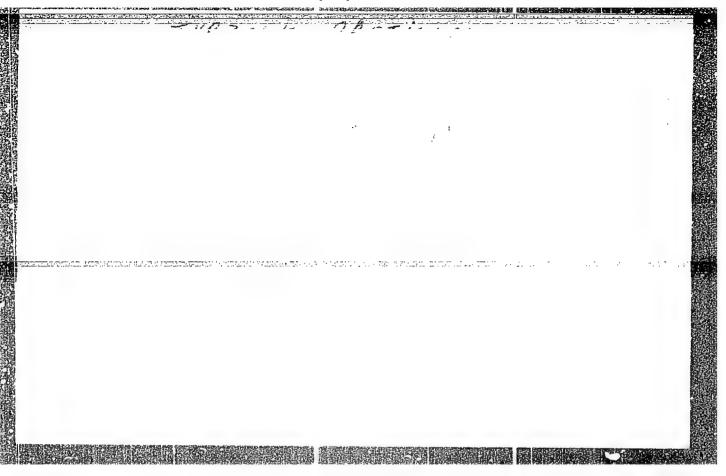
(OSTEOARTHROPATHY HYPERTROPHIC PULMONARY case reports)

5

SATAROVA, N.A.; TVORUS, Ye.K.

Effect of high temperature and drought on the RNA content and protein synthesis in plants. Izv. AN SSSR Ser. biol. 30 no.1: 66-74 Ja-F 165. (MIPA 18:2)

1. Institute of Plant Physiology, Academy of Sciences of the U.S.S.R., Moscow.



HRUBY .- St.

SURTAME (in caps); Given Names

Country: Czechoslovakia

Academic Degrees: "/not given/

Affiliation, Faculty of Medical Mygiene (Lekarska fakulta hygienicka), KU

/Karlova universita; Charles University/, Prague.

Source: Prague, Ceskoslovenska Hygiena, Vol VI, No 5, 1961, pp 310-314.

Data: "Sterilization of Spices by Means of Ethylene Oxide."

Co-athors:

MARESOVA, P., Deperatment of Hygienical Diet (Oddeleni hyg. vyzivy), Institute of Hygiena (Ustav hygieny),

Prague.

TVRZNIK, D. Central Bohemian Fruta National Enterprise (Stredoceska Fruta, n.p.)

,83

MUREK, Henryk, inz.; TWARDAWA, Bernard, mgr inz.

Modernization of a soda exchanger station for water softening.
Energetyka przem 10 no.8:289-290 Ag 162.

MUREK, Henryk, inz.; TWARDAWA, Bernard, mgr inz.

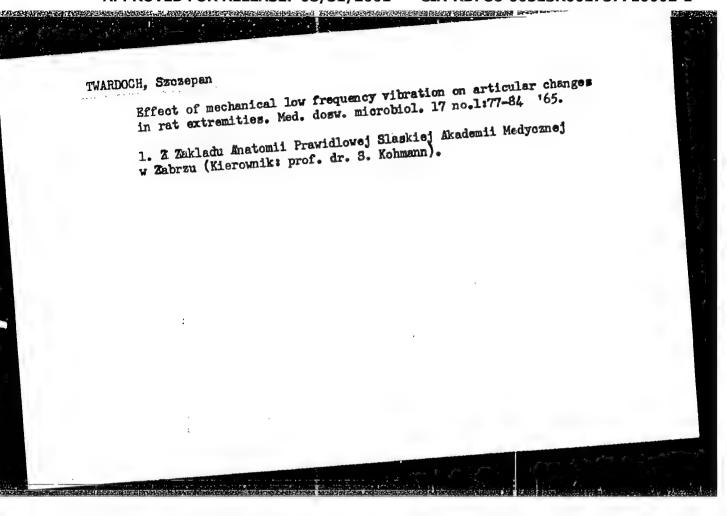
Rational water management in industrial plants. Gosp palivill no.4:143-145 Ap '63.

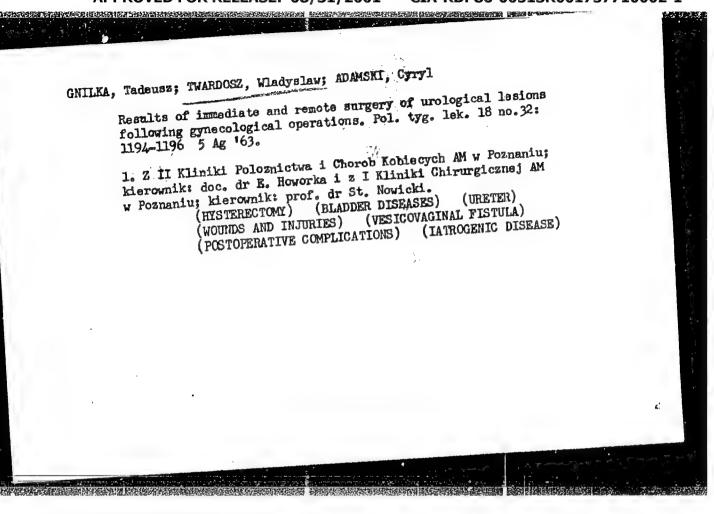
TWARDOCH, Szczepan

Treatment of postoperative duodenal fistylae by the irrigation with lactic acid solutions. Pol. przegl. chir. 34 no.10:997-1000 '62.

1. Ze Szpitala Miejskiego Nr 2 w Tarnowskich Gorach.Ordynator: dr J. Scierski.

(POSTGASTRECTOMY SYNDROMES) (LACTATES) (INTESTINAL FISTULA)
(DUODENAL DISEASES)





TWARDOSZ, Wladyslaw; GNILKA, Tadeusz

Functional disturbances of the urinary bladder and upper urinary tracts after radical excision of genital organs in cancer of the cervix uteri. Pol. przegl. chir. 37 no.7: 689-692 Jl '65.

1. Z I Kliniki Chirurgicznej AM w Poznaniu (Kierownik: prof. dr. S. Nowicki) i z II Kliniki Poloznictwa i Chorob Kobiecych AM w Poznaniu (Kierownik: prof. dr. E. Howorka).

TMARDOSZ, Władysław

Esionyomu of the bladder. Fol. przegl. chir. 36 no.5:717719 by '64.

1. Z I Kliniki Chirurgicznej Akademii Medycznej w Foznaniu
(Kiorownik: prof. dr S. Nowicki).

TWARDOWSKA, I.

Investigating the leaking of salt water through spruce wood. p. 139

ROCZNIKI NAUK LESNYCH Vol. 9, 1951,

Poland

SOURCE: EEAL Vol 5, No. 10 Oct. 1956

KRZY SZrOF TWARDOWSKI,

SURNAME, Given Names

Country: Poland

Academic Degrees:

Affiliation:

Source: Warsaw, Medycyna Weterynarina, Vol XVII, No 8, August 1961, pp 463-466.

"Activity of the Lyophilized Strain F₁₀₇ of the Newcastle Disease Virus at Various Temperatures."

MAREK, Kazimierz, Docent dr., Director of the Department of Poultry
Diseases (Zaklad Chorob Drobiu), Veterinary Research Institute BORZENSKA, Wanda. TWARDOWSKI Krzysztof, Magister, Director of the Branch Testing Laboratory (Branzowa Laboratorium Badawcze) of the Poultry and Egg Industry (Przemysl Jajowy-Drobiarski), Poznan.

470 981643

KOWAISKI, Edward; TWARDOWSKI. Zbylut

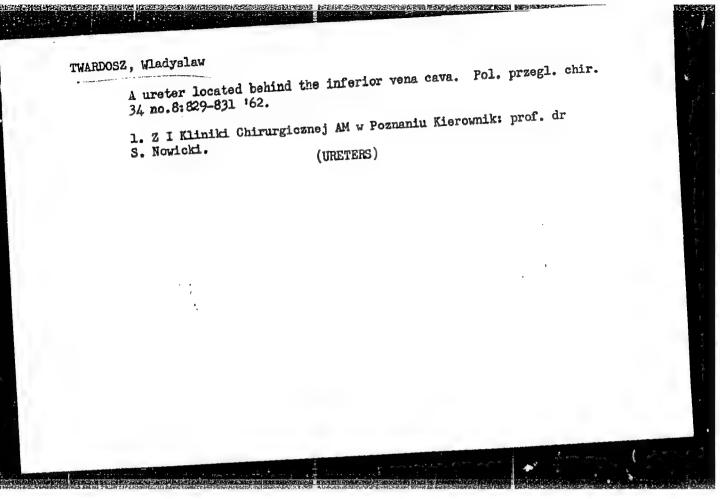
Uteroplacental apoplexy complicated by acute non-inflammatory renal failure. Pol. tyg. lek. 20 no.32:1210-1211 9 Ag '65.

1. Z II Kliniki Poloznictwa i Chorob Kobiecych AM w Krakowie (Kieronik: prof. dr. Maksymilian Seidler (obecnie doc. dr. (Kieronik: Jerzy Zamello)) i z Osrodka dializy pozaustrojowej (Kierownik: Jerzy Zamello)) i z Osrodka dializy pozaustrojowej (Kierownik: doc. dr. Zygmunt Hanicki) przy II Klinice Chorob Wewnetrznych AM w Krakowie (Kierownik: doc. dr. Stanislaw Kirchmayer).

HANICKI, Zygmunt; PACZEK, Zuzanna; WIERNIKOWSKI, Adem; HIRSZEL, Przemyslaw;
TWARDOMSKI, Abylut; BOGDAL, Jozef; DUZYK, Krystyra

Result of activities of the center of extracorporeal dialysis
in Krakow. Pol. tyg. lek. 19 no.35:1330-1331 31 Ag '64.

1. Z II Kliniki Chorob Wewnetrznych Akademii Medycznej w
Krakowie (kierownik; doc. dr med. St. Kirmayer).



TWARDOSZ, Waldyslaw

Spontaneous rupture of the kidney. Polski prezgl.chir. 27
noi: 10:1009-1014 Oct. '55.

1. Z I Kliniki Chirurgicznej A.M., w Poznaniu. Kierownik:
prof. dr St. Nowicki. Poznan, ul. Dluga 1/2.
(KIDNETS, rupture,
spontaneous)

POLAND

GNILKA, Tadeusz, TWARDOSZ, Wladyslaw, and ADAMSKI, Cyryl; Second Clinic of Obstetrics and Gynecology (II Klinika Poloznictwa i Chorob Kobiecych) (Director: Docent, Dr. E. HOWORKA) and First Surgical Clinic (I Klinika Chirurgiczna) (Director: Prof. Dr. St. NOWICKI), both of the AM [Akademia Medyczna, Medical Academy] in Poznan

"Results of Immediate and Late Surgical Treatment of Injuries to the Urinary Tract Following Gynecological Operations."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 32, 5 Aug 63, pp 1194-1196

Abstract: [Authors' English summary modified] Suture of injuries to the urinary bladder or tract sustained during gynecological operations, whether performed immediately or later, is most successful provided care is taken to assure free passage of urine and prevent infection. Type and manner of operation is of significance. All 14 cases studied showed good results in control examination 1-5 years after operation. There are 18 references: One (1) Soviet, 8 Polish, 5 German, and 4 English.

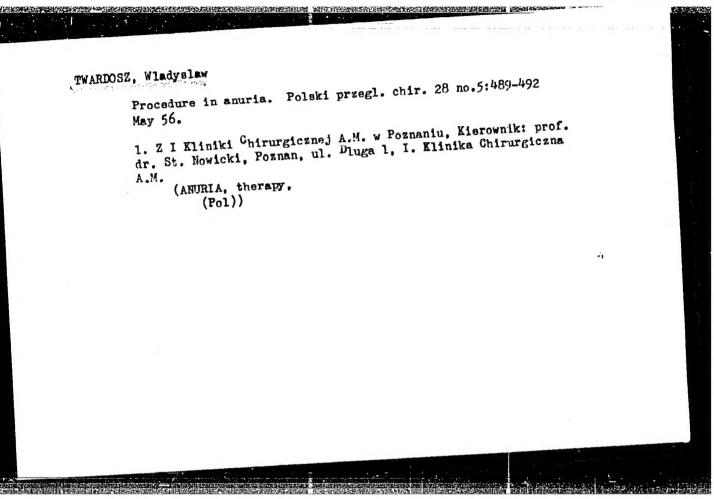
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CIA-RDP86-00513R001757710002-1" APPROVED FOR RELEASE: 08/31/2001

PILAWSKI, A.; TWARDOSZ, W1.; JASINSKI, K.

Clinical applications of photoplethysmography. Polski tygod.
lek. 11 no.16:673-679 16 Apr 56.

1. Z Zakledu Fizyki Lekarskiej AM w Poznaniu, kier. z. prof.
A. Pilawski z I Kliniki Chirur. AM w Pozn., kier. prof. dr.
St. Nowicki; z I Kliniki Chorob Wewn. AM w Poznaniu; kier.
prof. dr. W. Kwasniewski, Poznan, ul. Dluga 1/2.
(PLETRISWOGRAPHY,
photoplethysmography (Pol))



TWARKER, Wladyslaw; WALCZAK, Mieczyslaw

Besement membrane in the development of the rabbit kidney. Pat.
Pol. 15 no. 22199-205 April 164

1. Z I Kliniki Chirurgicznej Akademii Medycznej w 'cznaniu (Kierownika prof. dr. med. St. Nowicki) i z Il Kliniki. Chorob Dzieciących Akademii Medycznej w Poznaniu (Kierownika prof. dr. med. O. Szczepski).

U

Tumors. POLAND / General Problems of Pathology.

Human Neoplasms.

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51803.

: Jasinski, K., Twardosz, W. Author

: Not given Tnst : Megakariocytic Leukemia.

Title

Orig Pub: Przegl. lekar., 1955, 11, No 10, 300-305.

Abstract: In 2 patients with marked enlargement of the spleen and general malaise, with absence of changes in the peripheral blood, a large number of cells were noted in the bone marrow smear, among which there were many megakariocytes with delayed maturation. On one patient, splenectomy was performed, following which, his condition deteriorated very rapidly. The thrombo-

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